

S, wherein the alkyl is optionally substituted with one or more R⁷, wherein the cycloalkyl, heterocycloalkyl, aryl, or heteroaryl is optionally substituted with one or more R⁹;

each R³ is independently at each occurrence (C₁-C₆) alkyl, (C₁-C₆) alkoxy, (C₁-C₆) haloalkyl, (C₁-C₆) haloalkoxy, halogen, or OH;

each R⁴ is independently at each occurrence (C₁-C₆) alkyl, (C₁-C₆) alkoxy, (C₁-C₆) haloalkyl, (C₁-C₆) haloalkoxy, halogen, -OH, CN, (C₃-C₇) cycloalkyl, -(C(R^{6b})₂)_q-NH₂, -(C(R^{6b})₂)_q-(C₁-C₆) alkylamino, -(C(R^{6b})₂)_q-(C₁-C₆) dialkylamino, -(C(R^{6b})₂)_q-heterocycloalkyl wherein the heterocycloalkyl comprises a 4- to 7-membered ring and 1 to 3 heteroatoms selected from N, O, and S, or -(C(R^{6b})₂)_q-heteroaryl wherein the heteroaryl comprises a 5- or 6-membered ring and 1 to 3 heteroatoms selected from N, O, and S, and wherein the heterocycloalkyl or heteroaryl is optionally substituted with one or more substituents each independently selected from (C₁-C₆) alkyl, -NH₂, (C₁-C₆) alkylamino, and (C₁-C₆) dialkylamino;

R⁵ is H, (C₁-C₆) alkyl, or (C₁-C₆) haloalkyl;

each R^{6a} and R^{6b} is independently H or (C₁-C₆) alkyl;

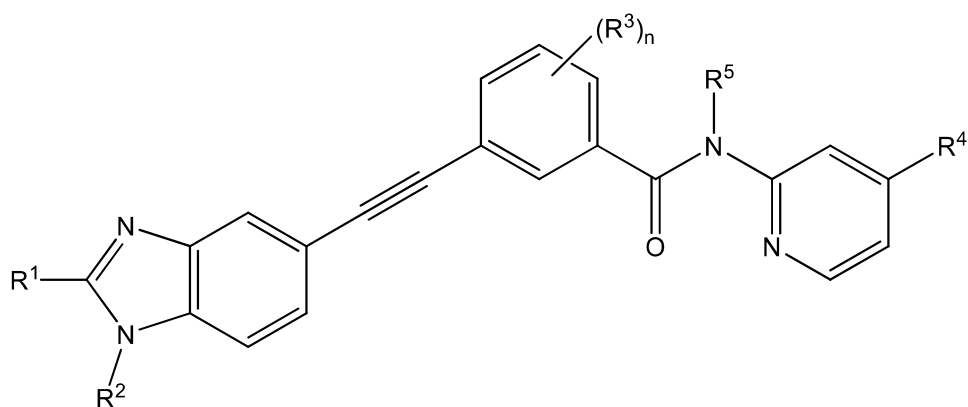
R⁷ is (C₁-C₆) alkoxy, (C₁-C₆) haloalkoxy, -OH, -NH₂, (C₁-C₆) alkylamino, (C₁-C₆) dialkylamino, or -C(O)N(R⁸)₂;

each R⁸ is independently H, (C₁-C₆) alkyl, or (C₁-C₆) haloalkyl;

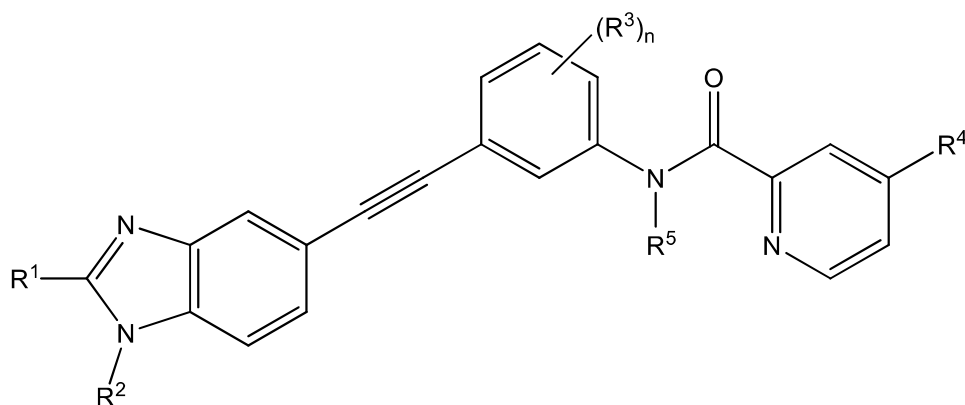
each R⁹ is independently at each occurrence (C₁-C₆) alkyl, (C₁-C₆) haloalkyl, -C(O)H, -C(O)(C₁-C₆) alkyl, or 5- to 7-membered heterocycloalkyl ring comprising 1 to 3 heteroatoms selected from N, O and S, wherein the heterocycloalkyl is optionally substituted with one or more substituents each independently selected from (C₁-C₆) alkyl, -C(O)H, or -C(O)(C₁-C₆) alkyl, and wherein the alkyl is optionally substituted with one or more substituents each independently selected from (C₁-C₆) alkoxy, -OH, (C₁-C₆) haloalkoxy, -NH₂, (C₁-C₆) alkylamino, or (C₁-C₆) dialkylamino; and

each n, p, and q is independently 0, 1 or 2.

[0007a] In one aspect, the present disclosure refers to a compound of formulae (Ii) or (Ij):



(Ii), or



(Ij),

or a pharmaceutically acceptable salt tautomer thereof,

wherein:

R^1 is H, (C_1-C_6) alkylamino, or (C_1-C_6) dialkylamino;

R^2 is H, (C_1-C_6) alkyl, $-(C(R^{6a})_2)_p-(C_3-C_7)$ cycloalkyl, $-(C(R^{6a})_2)_p$ -heterocycloalkyl wherein the heterocycloalkyl comprises a 4- to 7-membered ring and 1 to 3 heteroatoms selected from N, O, and S, $-(C(R^{6a})_2)_p-(C_6-C_{10})$ aryl, or $-(C(R^{6a})_2)_p$ -heteroaryl wherein the heteroaryl comprises a 5- or 6-membered ring and 1 to 3 heteroatoms selected from N, O, and S, wherein the alkyl is optionally substituted with one or more R^7 , wherein the cycloalkyl, heterocycloalkyl, aryl, or heteroaryl is optionally substituted with one or more R^9 ;

each R^3 is independently at each occurrence (C_1-C_6) alkyl, (C_1-C_6) alkoxy, (C_1-C_6) haloalkyl, (C_1-C_6) haloalkoxy, halogen, or OH;

each R^4 is independently at each occurrence (C_1-C_6) alkyl, (C_1-C_6) alkoxy, (C_1-C_6) haloalkyl, (C_1-C_6) haloalkoxy, halogen, -OH, CN, (C_3-C_7) cycloalkyl, $-(C(R^{6b})_2)_q-NH_2$, $-(C(R^{6b})_2)_q-(C_1-C_6)$ alkylamino, $-(C(R^{6b})_2)_q-(C_1-C_6)$ dialkylamino, $-(C(R^{6b})_2)_q$ -heterocycloalkyl wherein the heterocycloalkyl comprises a 4- to 7-membered ring and 1 to 3 heteroatoms selected from N, O, and S, or $-(C(R^{6b})_2)_q$ -heteroaryl wherein the

heteroaryl comprises a 5- or 6-membered ring and 1 to 3 heteroatoms selected from N, O, and S, and wherein the heterocycloalkyl or heteroaryl is optionally substituted with one or more substituents each independently selected from (C₁-C₆) alkyl, -NH₂, (C₁-C₆) alkylamino, and (C₁-C₆) dialkylamino;

R⁵ is H, (C₁-C₆) alkyl, or (C₁-C₆) haloalkyl;

each R^{6a} and R^{6b} is independently H or (C₁-C₆) alkyl;

R⁷ is (C₁-C₆) alkoxy, (C₁-C₆) haloalkoxy, -OH, -NH₂, (C₁-C₆) alkylamino, (C₁-C₆) dialkylamino, or -C(O)N(R⁸)₂;

each R⁸ is independently H, (C₁-C₆) alkyl, or (C₁-C₆) haloalkyl;

each R⁹ is independently at each occurrence (C₁-C₆) alkyl, (C₁-C₆) haloalkyl, -C(O)H, -C(O)(C₁-C₆) alkyl, or 5- to 7-membered heterocycloalkyl ring comprising 1 to 3 heteroatoms selected from N, O and S, wherein the heterocycloalkyl is optionally substituted with one or more substituents each independently selected from (C₁-C₆) alkyl, -C(O)H, or -C(O)(C₁-C₆) alkyl, and wherein the alkyl is optionally substituted with one or more substituents each independently selected from (C₁-C₆) alkoxy, -OH, (C₁-C₆) haloalkoxy, -NH₂, (C₁-C₆) alkylamino, or (C₁-C₆) dialkylamino; and

each n, p, and q is independently 0, 1 or 2.

[0007b] In another aspect, the present disclosure refers to a pharmaceutical composition comprising a compound as disclosed herein, or a pharmaceutically acceptable salt and a pharmaceutically acceptable diluent, excipient or carrier.

[0007c] In yet another aspect, the present disclosure refers to a compound selected from the group consisting of:

4-methyl-3-((1-(2-(methylamino)-2-oxoethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(2-(dimethylamino)ethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(2-methoxyethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(2-morpholinoethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(3-(dimethylamino)propyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-ethyl-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((2-amino-1H-benzo[d]imidazol-6-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-6-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(pyridin-3-ylmethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-cyclopropyl-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(3-(4-methylpiperazin-1-yl)phenyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(4-(4-methylpiperazin-1-yl)phenyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

N-(4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-((4-methylpiperazin-1-yl)methyl)-3-(trifluoromethyl)benzamide;

4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-methylpiperidin-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-phenyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(4-methylpiperazin-1-yl)-3-(trifluoromethyl)phenyl)benzamide;

4-methyl-3-((1-(1-methyl-1H-imidazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-methyl-1H-1,2,3-triazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(1-(1-formylpiperidin-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(piperidin-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(1-methylpiperidin-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

N-(3-cyclopropylphenyl)-4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)benzamide;

4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(pyrrolidin-1-ylmethyl)-3-(trifluoromethyl)phenyl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(pyrrolidin-1-ylmethyl)-3-(trifluoromethyl)phenyl)benzamide;

3-((1-(1-(2-hydroxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(1-(2-methoxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(1-methylpiperidin-4-yl)-1H-imidazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

N-(4-methyl-3-((1-(1-methyl-1H-1,2,3-triazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide

N-(4-cyano-3-(trifluoromethyl)phenyl)-4-methyl-3-((1-(1-methyl-1H-pyrazol-3-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)benzamide;

N-(3-((1-(1-(2-methoxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-hydroxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-hydroxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-(dimethylamino)ethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-(diethylamino)ethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide;

N-(4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-((4-methylpiperazin-1-yl)methyl)-3-(trifluoromethyl)benzamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(pyrrolidin-1-ylmethyl)-3-(trifluoromethyl)benzamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(morpholinomethyl)-3-(trifluoromethyl)benzamide;

N-(3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide;

3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-fluoro-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide; and

N-(4-fluoro-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide,

or a pharmaceutically acceptable salt thereof.

[0008] A second example of the disclosure relates to a method of treating a c-Kit-mediated disease or disorder. The method comprises administering to a patient in need thereof an effective amount of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof.

[0008a] In yet another aspect, the present disclosure refers to use of the compound as described herein, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for treating a c-Kit-mediated disease or disorder, wherein said c-Kit-mediated disease or disorder is selected from cell proliferative disorder, a fibrotic disorder, a metabolic disorder, multiple sclerosis, asthma, an allergic reaction, inflammatory arthritis, or mastocytosis.

[0009] Another example of the disclosure relates to a method of preventing a c-Kit-mediated disease or disorder. The method comprises administering to a patient in need thereof an effective amount of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof.

[0009a] In yet another aspect, the present disclosure refers to use of the compound as described herein, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for treating a c-Kit-mediated disease or disorder, wherein said c-Kit-mediated disease or disorder is multiple sclerosis, asthma, an allergic reaction, inflammatory arthritis, or mastocytosis.

[0010] Another example of the disclosure relates to a method of inhibiting c-Kit. The method comprises administering to a patient in need thereof an effective amount of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof.

[0011] Another example of the disclosure relates to a method of treating a disease or disorder associated with inhibiting c-Kit. The method comprises administering to a patient in

need thereof an effective amount of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof.

[0012] Another example of the disclosure relates to a method of preventing a disease or disorder associated with inhibiting c-Kit. The method comprises administering to a patient in need thereof an effective amount of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof.

[0013] Another example of the disclosure relates to a method of treating cancer. The method comprises administering to a patient in need thereof an effective amount of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof.

[0014] Another example of the disclosure is directed to pharmaceutical compositions comprising a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof and a pharmaceutically acceptable carrier. The pharmaceutical acceptable carrier may further include an excipient, diluent, or surfactant.

[0015] Another example of the present disclosure relates to a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof, for use in the manufacture of a medicament for treating a disease associated with inhibiting c-Kit.

[0016] Another example of the present disclosure relates to a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof, for use in the manufacture of a medicament for preventing a disease associated with inhibiting c-Kit.

[0017] Another example of the present disclosure relates to the use of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof, in the treatment of a disease associated with inhibiting c-Kit.

[0018] Another example of the present disclosure relates to the use of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof, in the prevention of a disease associated with inhibiting c-Kit.

[0019] The present disclosure further provides methods of treating or preventing a disease or disorder associated with modulation of c-Kit including, cancer and cell proliferative disorders, multiple sclerosis, asthma, inflammatory disorders, allergic reactions, fibrotic disorders, and metabolic disorders, comprising administering to a patient suffering from at least

one of said diseases or disorder a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof.

[0020] The present disclosure provides inhibitors of c-Kit that are therapeutic agents in the treatment of diseases such as cancer and cell proliferative disorders, multiple sclerosis, asthma, inflammatory disorders, allergic reactions, fibrotic disorders, and metabolic disorders.

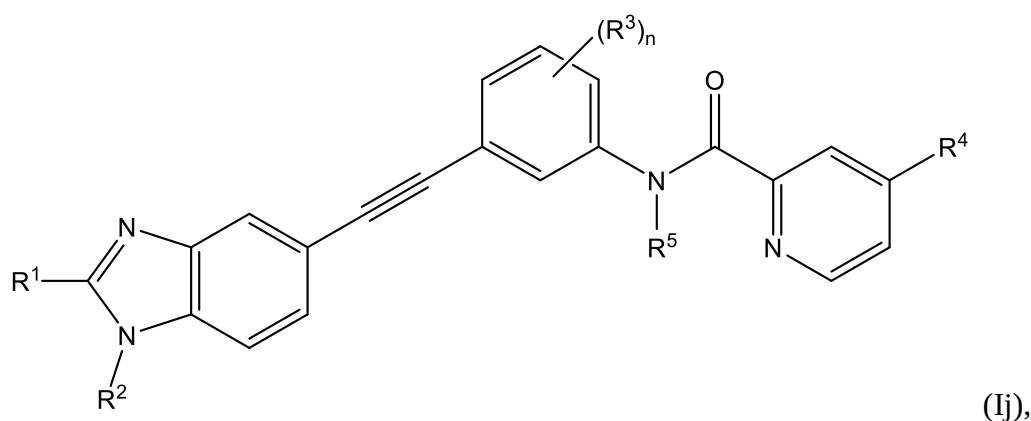
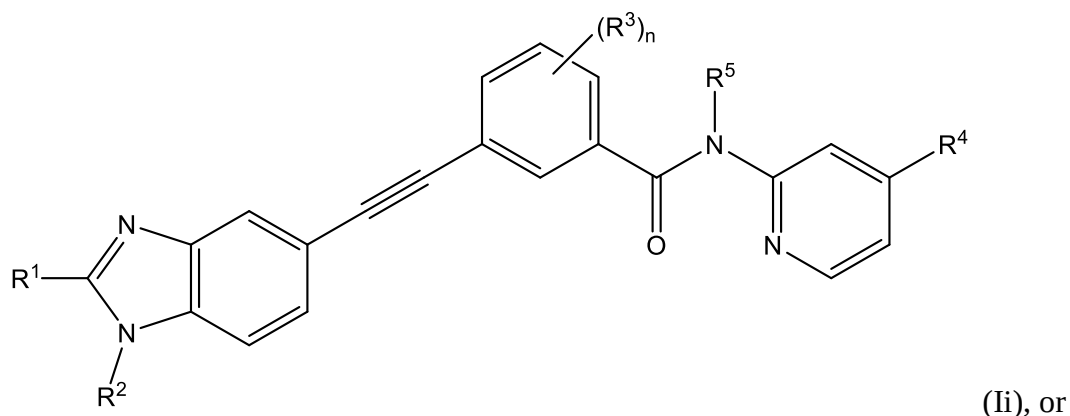
[0021] The present disclosure provides agents with novel mechanisms of action toward c-Kit enzymes in the treatment of various types of diseases including cancer and cell proliferative disorders, multiple sclerosis, asthma, mastocytosis, inflammatory disorders, allergic reactions, fibrotic disorders, auto-immune pathogenesis and metabolic disorders. Ultimately the present disclosure provides the medical community with a novel pharmacological strategy for the treatment of diseases and disorders associated with c-Kit.

Detailed Description of the Invention

[0022] The present invention relates to compounds and compositions that are capable of inhibiting the activity of c-Kit. The invention features methods of treating, preventing or ameliorating a disease or disorder in which c-Kit plays a role by administering to a patient in need thereof a therapeutically effective amount of a compound of Formula (I), or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof. The methods of the present invention can be used in the treatment of a variety of c-Kit dependent diseases and disorders by inhibiting the activity of c-Kit enzymes. Inhibition of c-Kit provides a novel approach to the treatment, prevention, or amelioration of diseases including, but not limited to, cancer and metastasis.

CLAIMED:

1. A compound of formulae (Ii) or (Ij):



or a pharmaceutically acceptable salt thereof,

wherein:

R¹ is H, (C₁-C₆) alkylamino, or (C₁-C₆) dialkylamino;

R² is H, (C₁-C₆) alkyl, -(C(R^{6a})₂)_p-(C₃-C₇) cycloalkyl, -(C(R^{6a})₂)_p-heterocycloalkyl wherein the heterocycloalkyl comprises a 4- to 7-membered ring and 1 to 3 heteroatoms selected from N, O, and S, -(C(R^{6a})₂)_p-(C₆-C₁₀) aryl, or -(C(R^{6a})₂)_p-heteroaryl wherein the heteroaryl comprises a 5- or 6-membered ring and 1 to 3 heteroatoms selected from N, O, and S, wherein the alkyl is optionally substituted with one or more R⁷, wherein the cycloalkyl, heterocycloalkyl, aryl, or heteroaryl is optionally substituted with one or more R⁹;

each R³ is independently at each occurrence (C₁-C₆) alkyl, (C₁-C₆) alkoxy, (C₁-C₆) haloalkyl, (C₁-C₆) haloalkoxy, halogen, or OH;

each R⁴ is independently at each occurrence (C₁-C₆) alkyl, (C₁-C₆) alkoxy, (C₁-C₆) haloalkyl, (C₁-C₆) haloalkoxy, halogen, -OH, CN, (C₃-C₇) cycloalkyl,

$-(C(R^{6b})_2)_q-NH_2$, $-(C(R^{6b})_2)_q-(C_1-C_6)$ alkylamino, $-(C(R^{6b})_2)_q-(C_1-C_6)$ dialkylamino, $-(C(R^{6b})_2)_q$ -heterocycloalkyl wherein the heterocycloalkyl comprises a 4- to 7-membered ring and 1 to 3 heteroatoms selected from N, O, and S, or $-(C(R^{6b})_2)_q$ -heteroaryl wherein the heteroaryl comprises a 5- or 6-membered ring and 1 to 3 heteroatoms selected from N, O, and S, and wherein the heterocycloalkyl or heteroaryl is optionally substituted with one or more substituents each independently selected from (C_1-C_6) alkyl, $-NH_2$, (C_1-C_6) alkylamino, and (C_1-C_6) dialkylamino;

R^5 is H, (C_1-C_6) alkyl, or (C_1-C_6) haloalkyl;

each R^{6a} and R^{6b} is independently H or (C_1-C_6) alkyl;

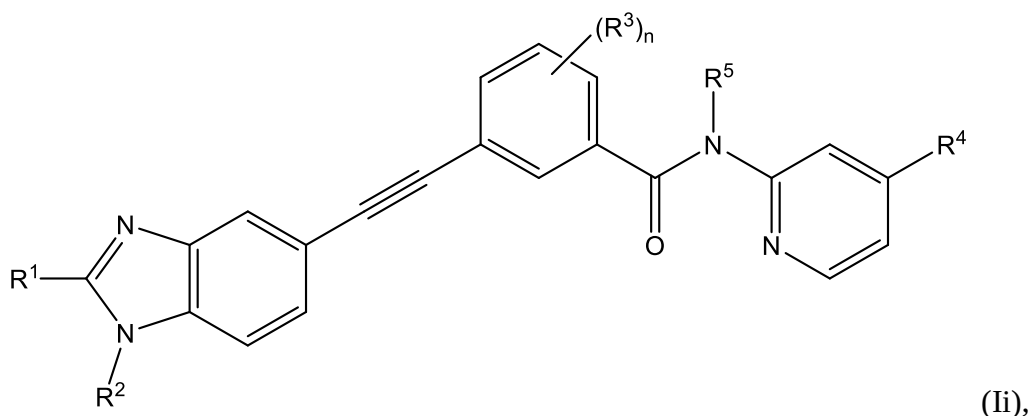
R^7 is (C_1-C_6) alkoxy, (C_1-C_6) haloalkoxy, $-OH$, $-NH_2$, (C_1-C_6) alkylamino, (C_1-C_6) dialkylamino, or $-C(O)N(R^8)_2$;

each R^8 is independently H, (C_1-C_6) alkyl, or (C_1-C_6) haloalkyl;

each R^9 is independently at each occurrence (C_1-C_6) alkyl, (C_1-C_6) haloalkyl, $-C(O)H$, $-C(O)(C_1-C_6)$ alkyl, or 5- to 7-membered heterocycloalkyl ring comprising 1 to 3 heteroatoms selected from N, O and S, wherein the heterocycloalkyl is optionally substituted with one or more substituents each independently selected from (C_1-C_6) alkyl, $-C(O)H$, or $-C(O)(C_1-C_6)$ alkyl, and wherein the alkyl is optionally substituted with one or more substituents each independently selected from (C_1-C_6) alkoxy, $-OH$, (C_1-C_6) haloalkoxy, $-NH_2$, (C_1-C_6) alkylamino, or (C_1-C_6) dialkylamino; and

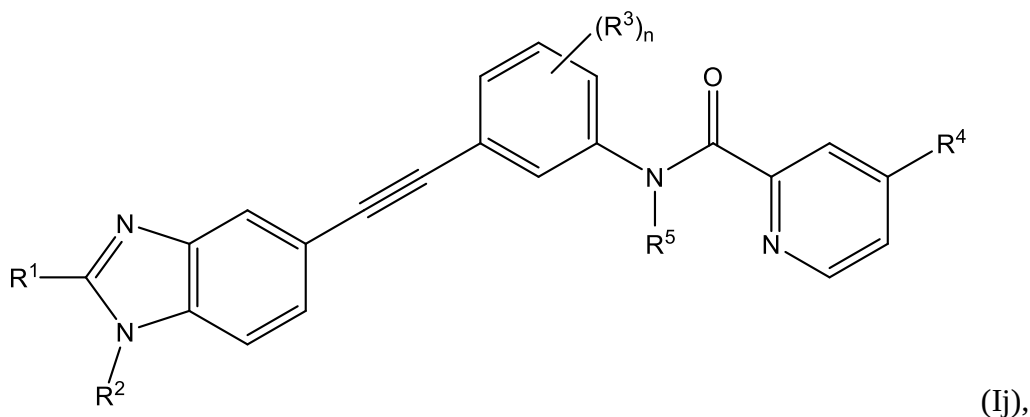
each n, p, and q is independently 0, 1 or 2.

2. The compound of claim 1, having a structure according to Formula (Ii):



or a pharmaceutically acceptable salt thereof.

3. The compound of claim 1, having a structure according to Formula (Ij),



or a pharmaceutically acceptable salt thereof.

4. The compound of any one of claims 1 to 3, wherein R^5 is H.
5. The compound of any one of claims 1 to 4, wherein R^4 is (C_1-C_6) haloalkyl.
6. The compound of any one of claims 1 to 5, wherein R^4 is CF_3 .
7. The compound of any one of claims 1 to 6, wherein n is 1, R^3 is methyl, R^1 is H, and R^2 is H; CH_3 ; CH_2CH_3 ; $-(CH_2)_2N(CH_3)_2$; $-(CH_2)_3N(CH_3)_2$; $-CH_2C(O)NH(CH_3)$; $-(CH_2)_2$ morpholinyl; $-(CH_2)_2OCH_3$; piperidinyl substituted with methyl; phenyl optionally substituted with 4-methylpiperzine; $-CH_2$ -pyridinyl; cyclopropyl; triazolyl substituted with methyl; or imidazolyl substituted with methyl or N-methyl piperidinyl.
8. The compound of any one of claims 1 to 6, wherein n is 1 and R^3 is methyl, R^2 is pyrazolyl optionally substituted with methyl; $-(CH_2)_2OH$; $-(CH_2)_2OCH_3$; $-(CH_2)_2N(CH_3)_2$; $-(CH_2)_2N(CH_2CH_3)_2$; morpholinyl; or piperidinyl optionally substituted with methyl or $-C(O)H$.
9. The compound of any one of claims 1 to 6, wherein n is 0 or 1 and R^3 is F, R^1 is pyrazolyl optionally substituted with methyl.

10. The compound of any one of claims 1 to 7, wherein n is 1, R³ is methyl, R¹ is NH₂ and R² is H.

11. A compound selected from the group consisting of:

4-methyl-3-((1-(2-(methylamino)-2-oxoethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(2-(dimethylamino)ethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(2-methoxyethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(2-morpholinoethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(3-(dimethylamino)propyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-ethyl-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((2-amino-1H-benzo[d]imidazol-6-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-6-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(pyridin-3-ylmethyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-cyclopropyl-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(3-(4-methylpiperazin-1-yl)phenyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(4-(4-methylpiperazin-1-yl)phenyl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

N-(4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-((4-methylpiperazin-1-yl)methyl)-3-(trifluoromethyl)benzamide;

4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-methylpiperidin-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-phenyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(4-methylpiperazin-1-yl)-3-(trifluoromethyl)phenyl)benzamide;

4-methyl-3-((1-(1-methyl-1H-imidazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-methyl-1H-1,2,3-triazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(1-(1-formylpiperidin-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(piperidin-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(1-methylpiperidin-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

N-(3-cyclopropylphenyl)-4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)benzamide;

4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(pyrrolidin-1-ylmethyl)-3-(trifluoromethyl)phenyl)benzamide;

4-methyl-3-((1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(pyrrolidin-1-ylmethyl)-3-(trifluoromethyl)phenyl)benzamide;

3-((1-(1-(2-hydroxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(1-(2-methoxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(tetrahydro-2H-pyran-4-yl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-methyl-3-((1-(1-(1-methylpiperidin-4-yl)-1H-imidazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

3-((1-(1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methyl-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

N-(4-methyl-3-((1-(1-methyl-1H-1,2,3-triazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide

N-(4-cyano-3-(trifluoromethyl)phenyl)-4-methyl-3-((1-(1-methyl-1H-pyrazol-3-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)benzamide;

N-(3-((1-(1-(2-methoxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-hydroxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-hydroxyethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-(dimethylamino)ethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1-(2-(diethylamino)ethyl)-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(3-((1-(1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-4-methylphenyl)-4-(trifluoromethyl)picolinamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide;

N-(4-methyl-3-((1-(1-methyl-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-((4-methylpiperazin-1-yl)methyl)-3-(trifluoromethyl)benzamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(pyrrolidin-1-ylmethyl)-3-(trifluoromethyl)benzamide;

N-(4-methyl-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(morpholinomethyl)-3-(trifluoromethyl)benzamide;

N-(3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide;

3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide;

4-fluoro-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)-N-(4-(trifluoromethyl)pyridin-2-yl)benzamide; and

N-(4-fluoro-3-((1-(1-methyl-1H-pyrazol-4-yl)-1H-benzo[d]imidazol-5-yl)ethynyl)phenyl)-4-(trifluoromethyl)picolinamide,

or a pharmaceutically acceptable salt thereof.

12. A pharmaceutical composition comprising a compound of any one of claims 1-11, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable diluent, excipient or carrier.

13. Use of the compound of any one of claims 1-11, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for treating a c-Kit-mediated disease or disorder, wherein said cKit-mediated disease or disorder is selected from cell proliferative disorder, a fibrotic disorder, a metabolic disorder, multiple sclerosis, asthma, an allergic reaction, inflammatory arthritis, or mastocytosis.

14. The use of claim 13, wherein said cell proliferative disorder is cancer, optionally wherein

said cancer is selected from the group consisting of leukemia, mast cell tumor, small cell lung cancer, testicular cancer, cancer of the gastrointestinal tract, cancer of the central nervous system, cancer of the female genital tract, sarcoma of neuroectodermal origin, and Schwann cell neoplasia associated with neurofibromatosis; or

said cancer is selected from the group consisting of small cell lung carcinoma, acute myeloid leukemia (AML), neuroblastoma, malignant melanomas, colorectal cancer, systemic mastocytosis (SM), and gastrointestinal stromal tumors (GISTs).

15. Use of the compound of any one of claims 1-10, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for treating a c-Kit-mediated disease or disorder, wherein said cKit-mediated disease or disorder is multiple sclerosis, asthma, an allergic reaction, inflammatory arthritis, or mastocytosis.